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NOTICE OF ALLOWANCE AND FEE(S) DUE

04586

7590

11/23/2001

ROSENBERG, KLEIN & LEE 3458 ELLICOTT CENTER DRIVE-SUITE 101 ELLICOTT CITY, MD 21043 EXAMINER

MCKINNON, TERRELL L

ART UNIT CLASS-SUBCLASS

3743

165-151000

DATE MAILED: 11/23/2001

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/747,999	12/27/2000	Min-Sheng Liu	MR2863-8	3605

TITLE OF INVENTION: FIN-TUBE HEAT EXCHANGER WITH VORTEX GENERATOR

TOTAL CLAIMS	APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
7	nonprovisional	NO	\$1280	\$300	\$1580	02/25/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT.

<u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED</u>. SEE 35 U.S.C. 151.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

B. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

□ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



PART B - FEE(S) TRANSMITTAL

Complete and mail this form, together with applicable fee(s), to:

Box ISSUE FEE

Assistant Commissioner for Patents

Washington, D.C. 20231

MAILING INSTRUCTI where appropriate. All fu indicated unless correcte maintenance fee notifical	ed below or directed of	d be use cluding herwise	d for transmitting the Patent, advanc in Block 1, by (a	the ISSUE FEE and the orders and notificate the orders and notificate the order of the order of the order of the order of	PUBLICAT ion of mainte orrespondenc	TON FEE (i enance fees v ee address; a	f required). Blocks 1 throuvill be mailed to the current nd/or (b) indicating a sepa	igh 4 should be completed correspondence address as rate "FEE ADDRESS" for
04586	ence address (Note: Legib 7590 11/2: , KLEIN & LEE	ily mark-up 3/2001	with any corrections or	use Block 1)	Note: The mailings o other accor or formal d	certificate of the Fee(s) mpanying pa drawing, mus	of mailing below can on Transmittal. This certifical apers. Each additional pape t have its own certificate of	ly be used for domestic te cannot be used for any er, such as an assignment f mailing.
3458 ELLICOTT ELLICOTT CIT	F CENTER DRIVE Y, MD 21043	E-SUIT	E 101		I hereby of United State envelope indicated b	certify that to tes Postal Se addressed to below.	Certificate of Mailing this Fee(s) Transmittal is revice with sufficient postage the Box Issue Fee add	being deposited with the ge for first class mail in an dress above on the date
								(Depositor's name)
							_	(Signature)
		ė						(Date)
APPLICATION NO.	FILING DATE	:		FIRST NAMED INVEN	TOR	1,	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/747,999	12/27/2000		.	Min-Sheng Liu			MR2863-8	3605
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, <u> </u>				\$1200		\$300	\$1300	02/25/2002
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MCKINNON	N, TERRELL L		3743	165-15100	00			
Address form PTO/SE	O form(s) and Customer ndence address (or Cha 8/122) attached. cation (or "Fee Address"	r Numbe	r are recommende	d, 2. For printing the names of u or agents OR, single firm (hattorney or ag registered pater is listed, no nam	p to 3 regist alternatively aving as a rent) and the at attorneys of	tered patent (r, (2) the namember a rember a re mames of or agents. If	attorneys I une of a egistered up to 2	
3. ASSIGNEE NAME A								
PLEASE NOTE: Unles been previously submitt (A) NAME OF ASSIGN	s an assignee is identified to the USPTO or is b NEE	ied belov being sul	w, no assignee dat bmitted under sepa (B)	a will appear on the rate cover. Completic RESIDENCE: (CIT	patent. Inclus on of this form Y and STATE	sion of assign is NOT a s E OR COUN	nee data is only appropriate substitute for filing an assig (TRY)	e when an assignment has nment.
Please check the appropri	ate assignee category o	r categoi	ries (will not be pri	inted on the patent)	🗅 indivi	idual 🔾 cor	poration or other private gr	oup entity government
4a. The following fee(s) a	are enclosed:		4b.	Payment of Fee(s):				
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Publication Fee	S.C			Payment by credit car			ached. rge the required fee(s), or c	radit any avarnavrnant to
Advance Order - # o	Copies		De De	posit Account Number	r	ene	close an extra copy of this f	orm).
The COMMISSIONER C	OF PATENTS AND TR	ADEMA	NRKS is requested	to apply the Issue Fe	e and Publica	ation Fee (if	any) to the application iden	tified above.
(Authorized Signature)			(Date)					
NOTE; The Issue Fee other than the applican interest as shown by the	it; a registered attorned seconds of the United S	y or age States Pa	nt; or the assigne tent and Trademar	e or other party in k Office.				
Burden Hour Statement depending on the needs to complete this form s and Trademark Office, FORMS TO THIS AI Assistant Commissioner	of the individual cace	Anu con	amanta on tha ama					

TRANSMIT THIS FORM WITH FEE(S)

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09/747,999	1	2/27/2000	Min-Sheng Liu	MR2863-8	3605
04586	7590	11/23/2001		EXAMIN	ER
ROSENBERG	•	& LEE R DRIVE-SUITE 10	.1	MCKINNON, T	ERRELL L
ELLICOTT CIT				ART UNIT	PAPER NUMBER
				3743	
				DATE MAILED: 11/23/2001	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

		Application No.	Applicant(s)				
	Notice of Allowshills	09/747,999	LIU ET AL.				
	Notice of Allowability	Examiner	Art Unit				
		Terrell L Mckinnon	3743				
∐i	The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHT of the Office or upon petition by the applicant. See 37 CFR 1.313	OR REMAINS) CLOSED or other appropriate comm SHTS This application is	in this application. If not inclu	ided			
	 This communication is responsive to the applicant's responsive. The allowed claim(s) is/are 1,11-13,21,23 and 24. The drawings filed on 12/07/2000 are accepted by the Example. Acknowledgment is made of a claim for foreign priority under the communication of the communication is responsive to the applicant's responsive to the applicant to the	se of November 2, 2001.	or (f).				
	1. Certified copies of the priority documents have						
	2. Certified copies of the priority documents have	been received in Applicati	on No				
	3. Copies of the certified copies of the priority doc	uments have been receive	ed in this national stage applic	ation from the			
	International Bureau (PCT Rule 17.2(a)).						
5	* Certified copies not received:	dan 25 11 0 0 0 4400 1 0					
"	 Acknowledgment is made of a claim for domestic priority under the control of the foreign language provisional approving the control of the foreign language provisional approving the control of the contro	der 35 U.S.C. § 119(e) (to	a provisional application).				
6	i. ☐ Acknowledgment is made of a claim for domestic priority un	plication has been receive	d.				
•	The province of a claim for domestic priority unit	iei 35 0.5.C. 99 120 and/	or 121.				
"	Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.						
7 IN	. ☐ A SUBSTITUTE OATH OR DECLARATION must be submit NFORMAL PATENT APPLICATION (PTO-152) which gives reaso	ted. Note the attached EX n(s) why the oath or decla	AMINER'S AMENDMENT or ration is deficient.	NOTICE OF			
8	. ☐ CORRECTED DRAWINGS must be submitted. (a) ☐ including changes required by the Notice of Draftsperso 1) ☐ hereto or 2) ☐ to Paper No						
	(b) including changes required by the proposed drawing co	rrection filed, whic	ch has been approved by the	Examiner.			
	(c) including changes required by the attached Examiner's	Amendment / Comment o	r in the Office action of Paper	No:			
:	Identifying indicia such as the application number (see 37 CFR 1.84 of each sheet. The drawings should be filed as a separate paper w	l(c)) should be written on th ith a transmittal letter addre	ne drawings in the top margin (essed to the Official Draftspers	not the back) on.			
9. at	☐ DEPOSIT OF and/or INFORMATION about the deposit tached Examiner's comment regarding REQUIREMENT FOR TH	of BIOLOGICAL MATE E DEPOSIT OF BIOLOGIC	ERIAL must be submitted. I CAL MATERIAL.	Note the			
A1	itachment(s)						
3[5[□ Notice of References Cited (PTO-892) □ Notice of Draftperson's Patent Drawing Review (PTO-948) □ Information Disclosure Statements (PTO-1449), Paper No □ Examiner's Comment Regarding Requirement for Deposit of Biological Material	4☐ Interview 6☐ Examine 8☐ Examine 9☐ Other	Informal Patent Application (Summary (PTO-413), Paper r's Amendment/Comment r's Statement of Reasons for a sory Bennett sory Patent Examiner	No			